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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/754,264	01/05/2001	Tetsuo Usami	OKI.202	3022
75	90 04/07/2003			
JONES VOLENTINE, L.L.P. Suite 150 12200 Sunrise Vally Drive			EXAMINER	
			RAO, SHRINIVAS H	
Reston, VA 20191			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 04/07/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

• •			9/1/2			
•	4	Application No.	Applicant(s)			
	Office Action Summary	09/754,264	USAMI ET AL.			
	Office Action Summary	Examiner	Art Unit			
	The MAILING DATE of this	Steven H. Rao	2814			
Period fe	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
I HE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we tree to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing end patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from Cause the application to become ARANDONE	nely filed s will be considered timely. the mailing date of this communication.			
1)⊠	Responsive to communication(s) filed on 29 Ja	anuarv 2002				
2a)		s action is non-final.				
3)	,		Osecution as to the merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
-	Claim(s) 10-13 is/are pending in the application	1.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
	_					
_	6) Claim(s) <u>10-13</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
	on Papers					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
	Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) □ Some * c) □ None of:						
	1. ☐ Certified copies of the priority documents	have been received				
			n No			
	 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
بر ہے Attachment		priority under 55 0.5.0, 99 120 8	anu/UFIZI.			
1) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) atent Application (PTO-152)			
Detail and To	de la Official					

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DETAILED ACTION

Priority

Receipt is acknowledged of paper submitted under 37 CFR 114 claiming priority from U.S. Serial No. 09/754,364 35 filed on January 05, 2001 which itself claims priority under U.S.C. 119(a)-(d), from Japanese Patent Application No. 117990/2000 filed on April 19, 2000 which papers have been placed of record in the file.

Continued Prosecution Application

The request filed on 01/23/20030 for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 09/754,264 is acceptable and a RCE has been established. An action on the RCE follows.

Drawings

The drawings filed on 01/05/01 have been accepted by the draftsperson.

Preliminary Amendment Status

Acknowledgment is made of entry of preliminary amendment filed 01 /23 /2003 which has been entered on January 29, 2003.

Therefore claims 10 -13 as recited in the preliminary amendment.

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Claims 1 through 9 have been cancelled by the preliminary amendment.

Claim Rejections - 35 USC § 112

I. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

II. Claim X is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim X the phrase "predetermined ZZZZZ" renders the claim indifinite because the term "predetermined" is characterized according to applicant's own definition merely means determined beforhands; if applicant desires to patent detailed controls over the process they should be affirmatively recited in the claim; if all that asserted as invention is used of control as such, the use of controls is an old and obvious expedient. It is suggested that predetermined be deleted.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10 –13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang (U.S. Patent No. 5,604,155 herein after Wang) previously applied in view of Fukui Soichi (Japanese Patent Publication No. 9-249966, herein after Soichi)newly applied.

With respect to claim 10, Wang describes a method of depositing a wiring film over a semiconductor substrate, the method comprising:

Wang does not specifically describe a Al 3 Ti target

However Soichi in its table 2, no. 2 describes using Al ₃ Ti target to improve the reliability of the membrane(thin film) formed that can be used in optical media devices.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include Soichi's Al $_3$ Ti target in Wang's method to improve the reliability of the membrane(thin film) formed that can be used in optical media devices. (Soichi Effect of the invention section and table 3).

The other limitations of claim 10 are:

providing a substrate (Wang col. 1 line 29), forming a Ti Layer over the substrate(Wang fig. 2 # 52, col. 4 lines 3-7), sputter depositing an Al ₃Ti layer on said Ti layer using said Al ₃Ti target (Soichi English –abstract) and annealing said substrate at a temperature of at least 400 °C to promote absorption of Si into said Al ₃Ti layer. (Wang fig.3 # 108, col. 4 lines 25-26, col. 3 lines 5-6).

With respect to claim 11, wherein an Al layer is deposited on said Al $_3$ Ti layer (Wang fig. 3, col. 4 lines 25-26).

With respect to claim 12, wherein the step of pattern-etching said Al layer thereby forming a wiring pattern. (Wang col. 2 lines 52-55).

With respect to claim 13, wherein the method further comprises forming an insulating layer between said substrate and said Al ₃Ti layer (Wang col. 1 lines 36-38).

Applicant's arguments with respect to claims 10-13 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Steven H. Rao whose telephone number is (703) 306-5584. The examiner can normally be reached on Monday- Friday from approximately 7:00 a.m. to 5:30 p.m.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956. The Group facsimile number is (703) 308-7724.

Steven H. Rao

Patent Examiner

March 31, 2003.

PERMARY EXAMINE